

ABSTRACT OF THE DISCLOSURE

5 **METHOD AND SYSTEM FOR AUTONOMIC MONITORING OF SEMAPHORE**
 OPERATIONS IN AN APPLICATION

 A method, an apparatus, and a computer program
product in a data processing system are presented for
10 using hardware assistance for gathering performance
information that significantly reduces the overhead in
gathering such information. Performance indicators are
associated with instructions or memory locations, and
processing of the performance indicators enables counting
15 of events associated with execution of those instructions
or events associated with accesses to those memory
locations. The performance information that has been
dynamically gathered from the assisting hardware is
available to the software application during runtime in
20 order to autonomically affect the behavior of the
software application, particularly to enhance its
performance. For example, the counted events may be used
to autonomically collecting statistical information about
the ability of a software application to successfully
25 acquire a semaphore.